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株式会社内 Aichi (JP).

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添付公開書類:

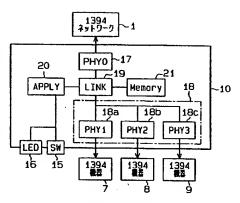
国際調査報告書

(72) 発明者; および

2文字コード及び他の略語については、 定期発行される 各PCTガゼットの巻頭に掲載されている「コードと略語 のガイダンスノート」を参照。

(54) Title: SWITCHED ROUTING DEVICE AND SWITCHED ROUTING SYSTEM

(54) 発明の名称: 切替え中継装置、及び切替え中継システム



(57) Abstract: A switched routing system recognizes a device, without reconfiguring a network used for connection, while realizing hot plugging. A first network (1) including a host personal computer is connected to a physical layer circuit (17). 1394 type devices (7-9) are connected to physical layer circuits (18a-18c). The physical layer circuit (17) is connectable through a link layer circuit (19) to the physical layer circuits (18a-18c), while the physical layer circuit (17) is separated from the physical layer circuits (18a-18c). As a result, the reconfiguration of the first network (1) is avoided in case a bus reset occurs on any of the 1394 type devices (7-9) when it is installed or removed.

1...1394 TYPE NETWORK 7...1394 TYPE DEVICE

8...1394 TYPE DEVICE

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9...1394 TYPE DEVICE

## (57) 要約:

ホット・プラグ機能を実現しながら接続対象となるネットワークの再構築を行うことなく装置認識を可能とする切替え中継装置、及び切替え中継システム。ホストパソコンの存在する第1のネットワーク(1)は、物理層回路(17)に接続される。1394機器(7~9)は、物理層回路(18a~18c)に接続される。物理層回路(17)と物理層回路(18a~18c)はリンク層回路(19)を介して接続され、物理層回路(17)と物理層回路(18a~18c)とは互いに分離される。そのため、1394機器(7~9)の挿抜により当該1394機器(7~9)にバスリセットが発生しても、第1のネットワーク(1)の再構築の発生は抑止される。

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP00/09289

A CLAS	OTELO A TION OF OUR TOWN ALL PROPER		
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> H04L12/46, H04L12/44			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)  Int.Cl <sup>7</sup> H04L12/46, H04L12/44			
Kokai Jitsuyo Shinan Koho 1971-2001 Jitsuyo Shinan Torol			inan Koho 1994-2001 Proku Koho 1996-2001
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  JICST FILE (JOIS)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap		ges Relevant to claim No.
A	JP, 9-212163, A (Yamaha Corpord 15 August, 1997 (15.08.97), Figs. 1, 3 (Family: none)	ation),	1-11
A	JP, 11-341021, A (Canon Inc.), 10 December, 1999 (10.12.99), Figs. 1, 2 (Family: none)	-	1-11
A	JP, 2000-151681, A (Samsung Electron Co., Ltd.), 30 May, 2000 (30.05.00), Figs. 1, 3 (Family: none)		1-11
А	EP, 899655, A1 (Canon Inc.), 03 March, 1999 (03.03.99), Fig. 6 & JP, 11-163895, A & KR, 99023846, A & CN, 1211763, A		1-11
Further	r documents are listed in the continuation of Box C.		·
<del></del>	categories of cited documents:	See patent family annex.	
"A" documer consider date "L" documer cited to especial r	ent defining the general state of the art which is not red to be of particular relevance document but published on or after the international filing ent which may throw doubts on priority claim(s) or which is establish the publication date of another citation or other reason (as specified)	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is	
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Date of the actual completion of the international search 28 March, 2001 (28.03.01)		Date of mailing of the international search report 10 April, 2001 (10.04.01)	
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Facsimile No.		Telephone No.	

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